

Figure 1A



Figure 1B

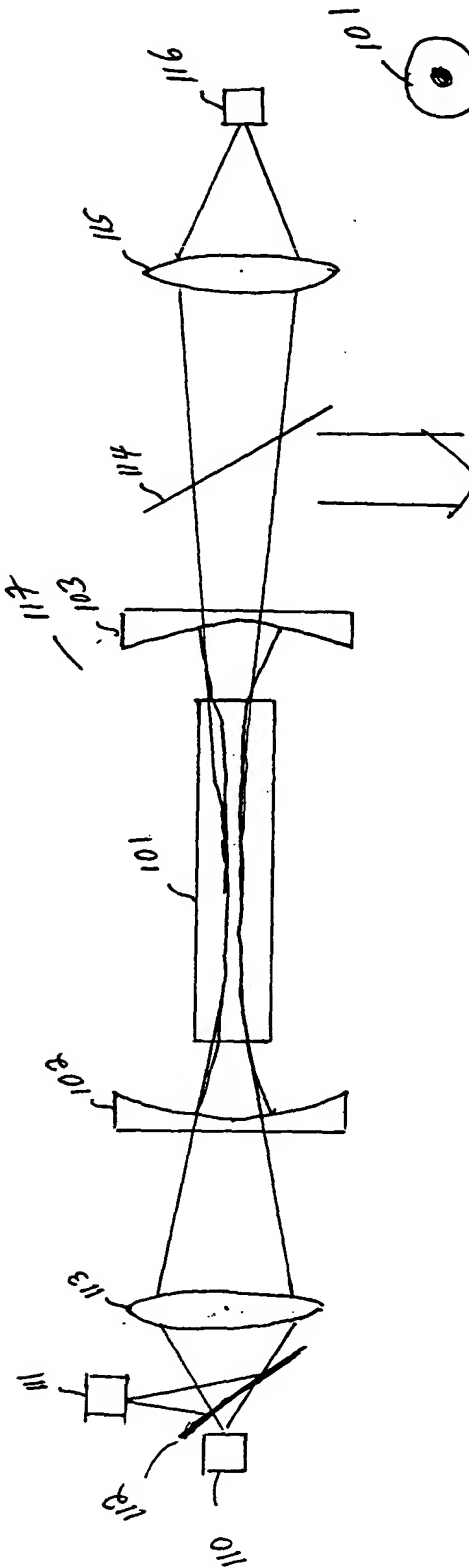


Figure 1C



Figure 1D

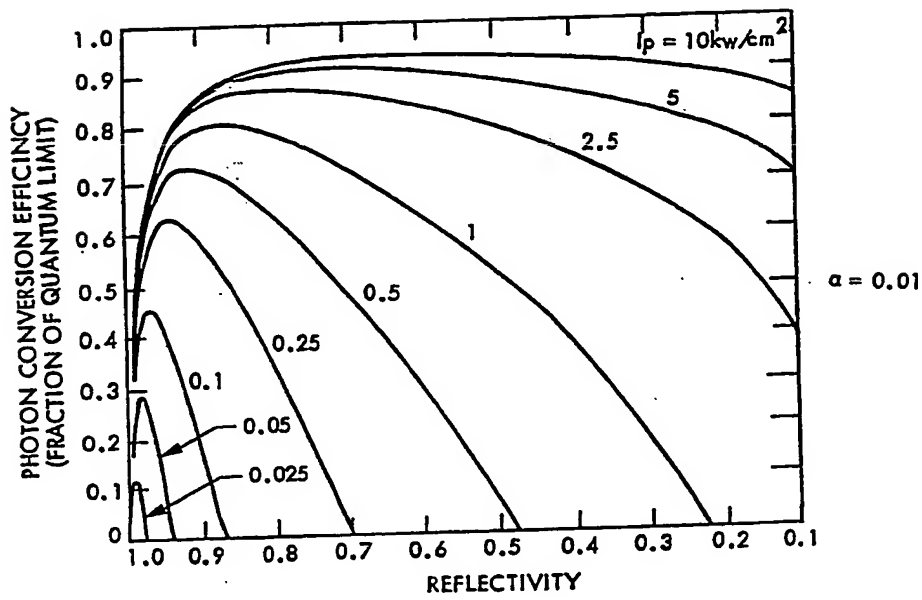


Figure 1E

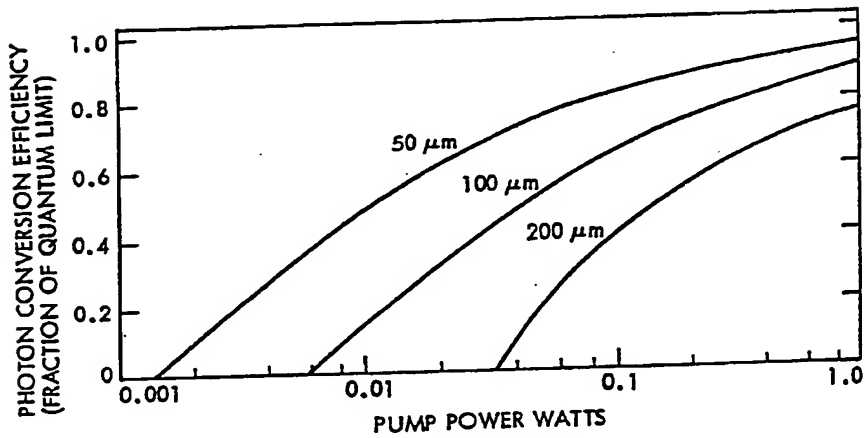
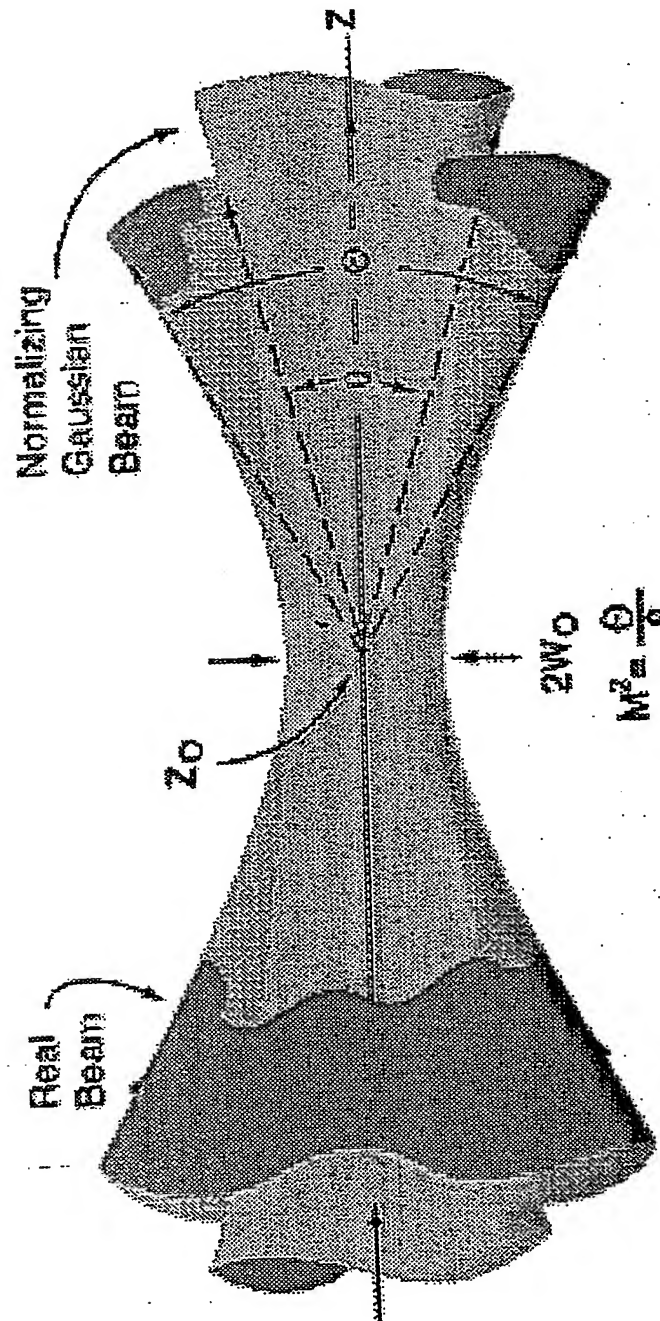


Figure 1F

Figure 2



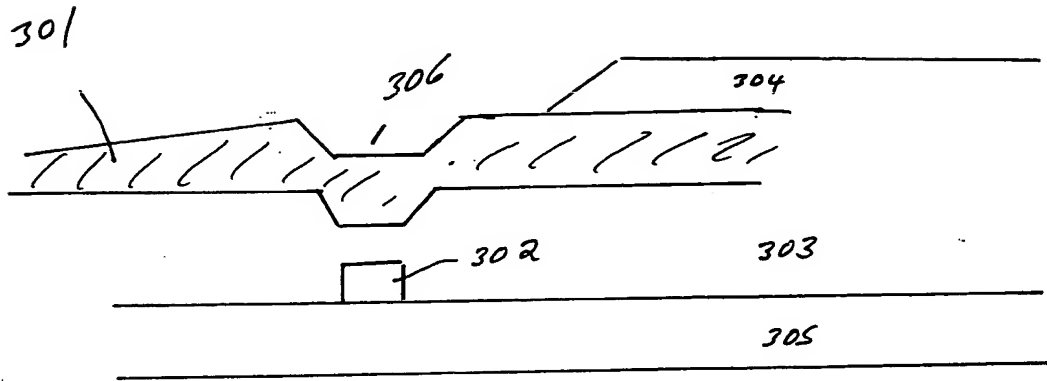


Figure 3A

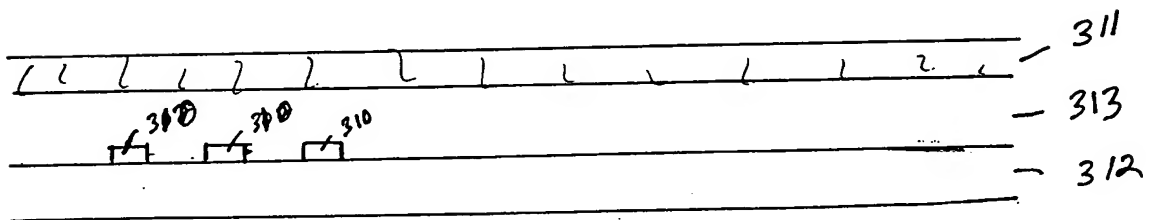


Figure 3B

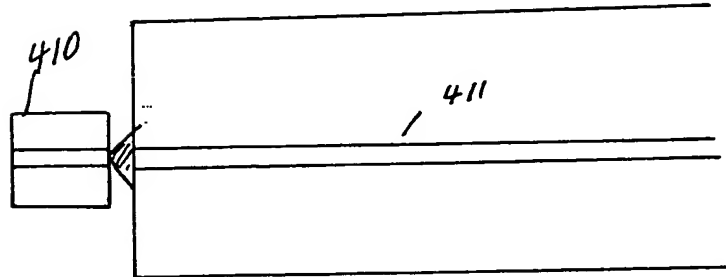


Figure 4

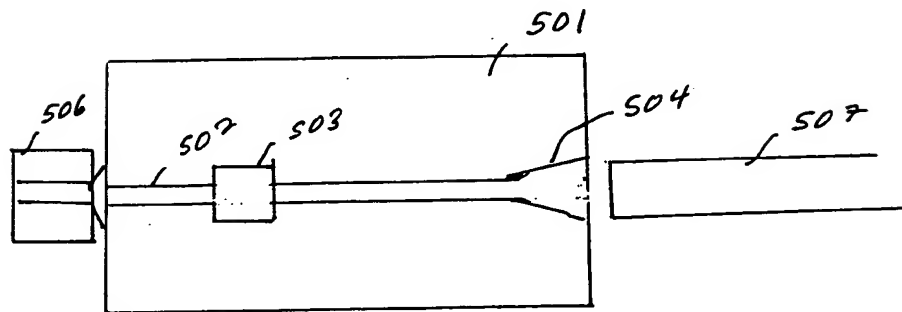


Figure 5A

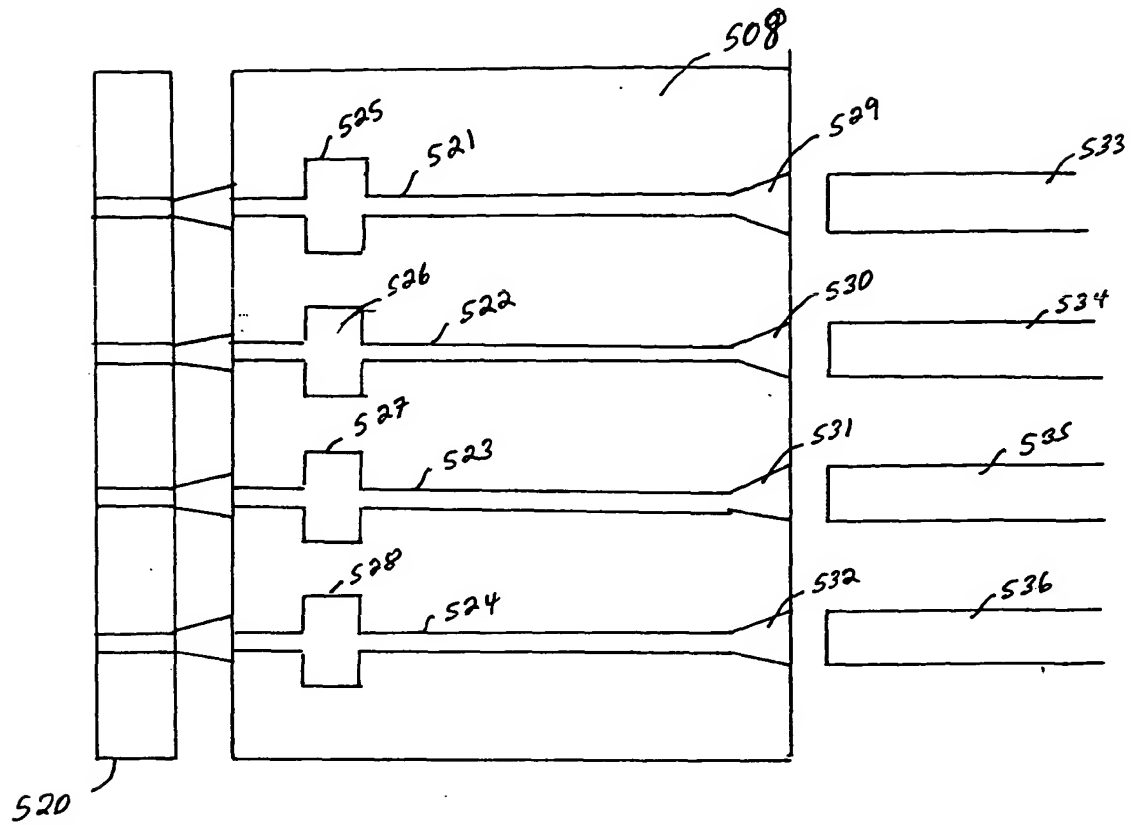


Figure 5B

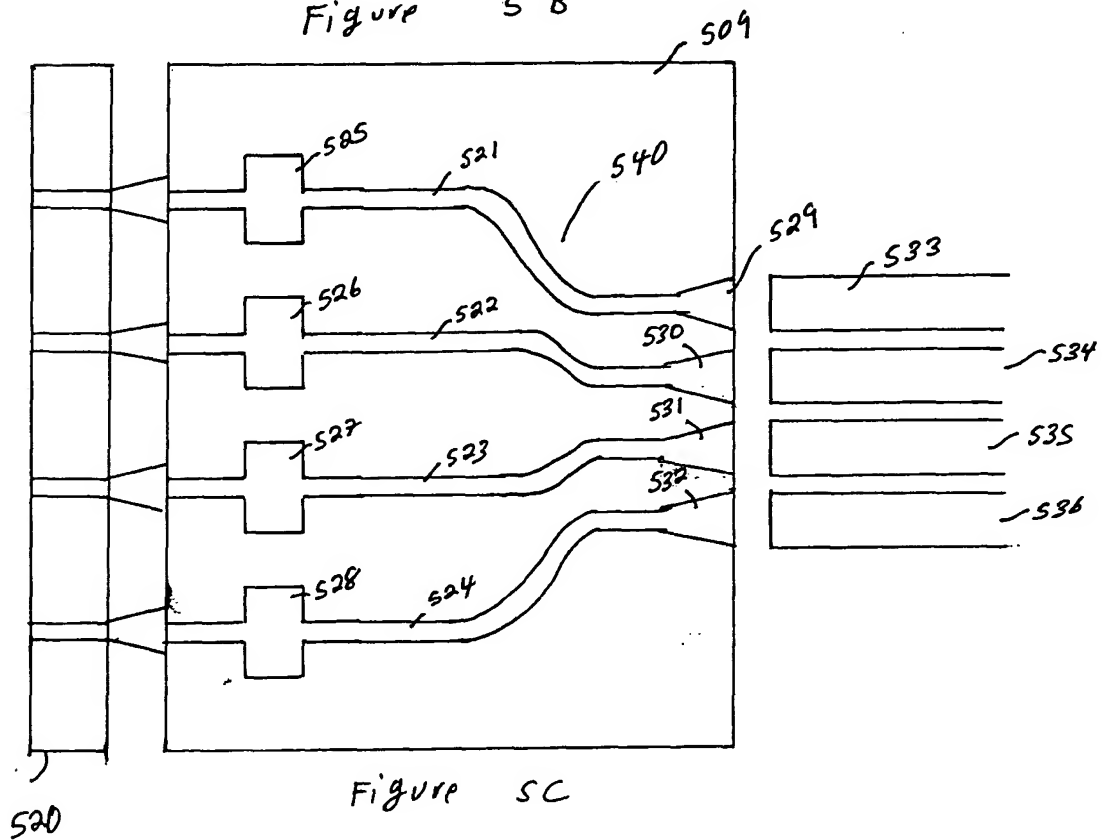


Figure 5C

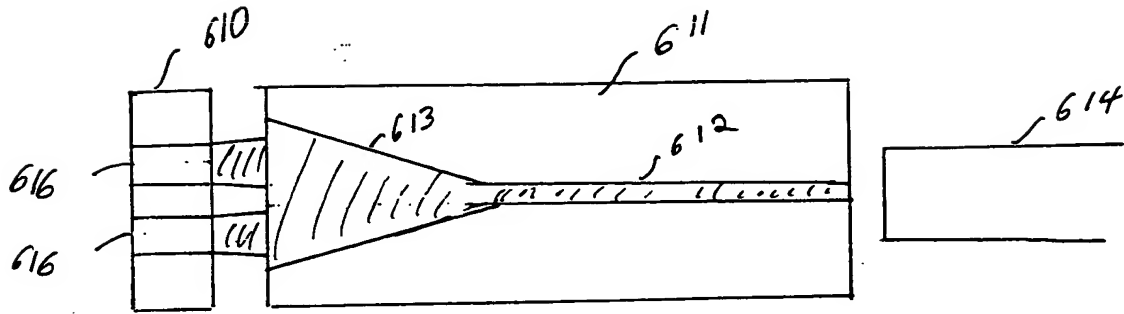


Figure 6A

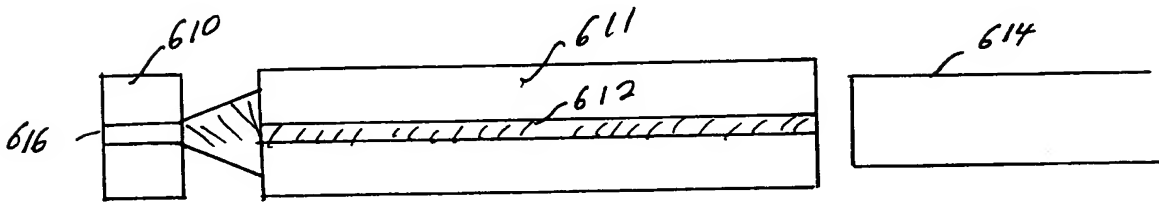


Figure 6B

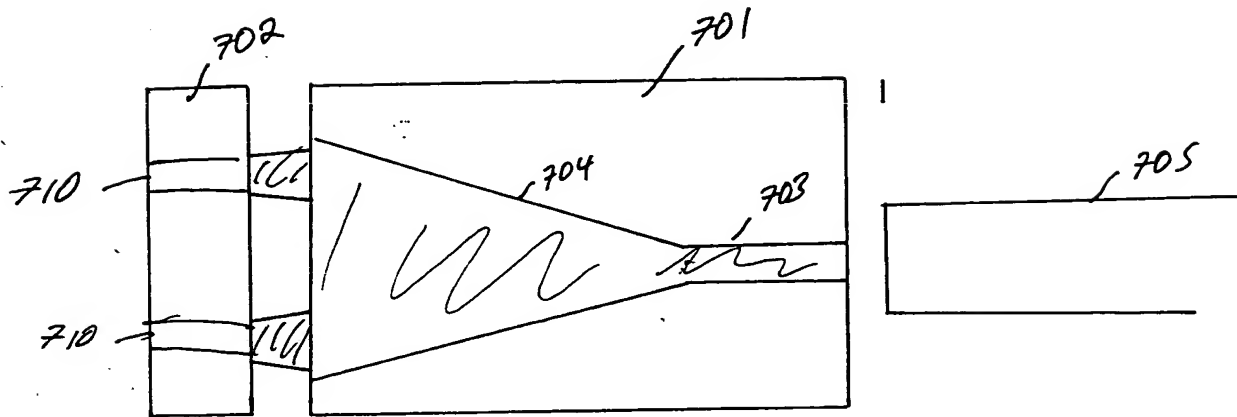


Figure 7A

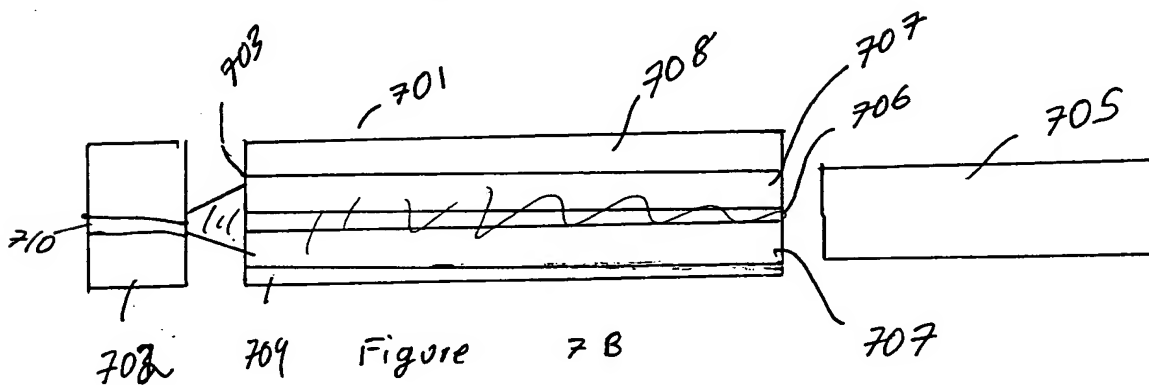


Figure 7B

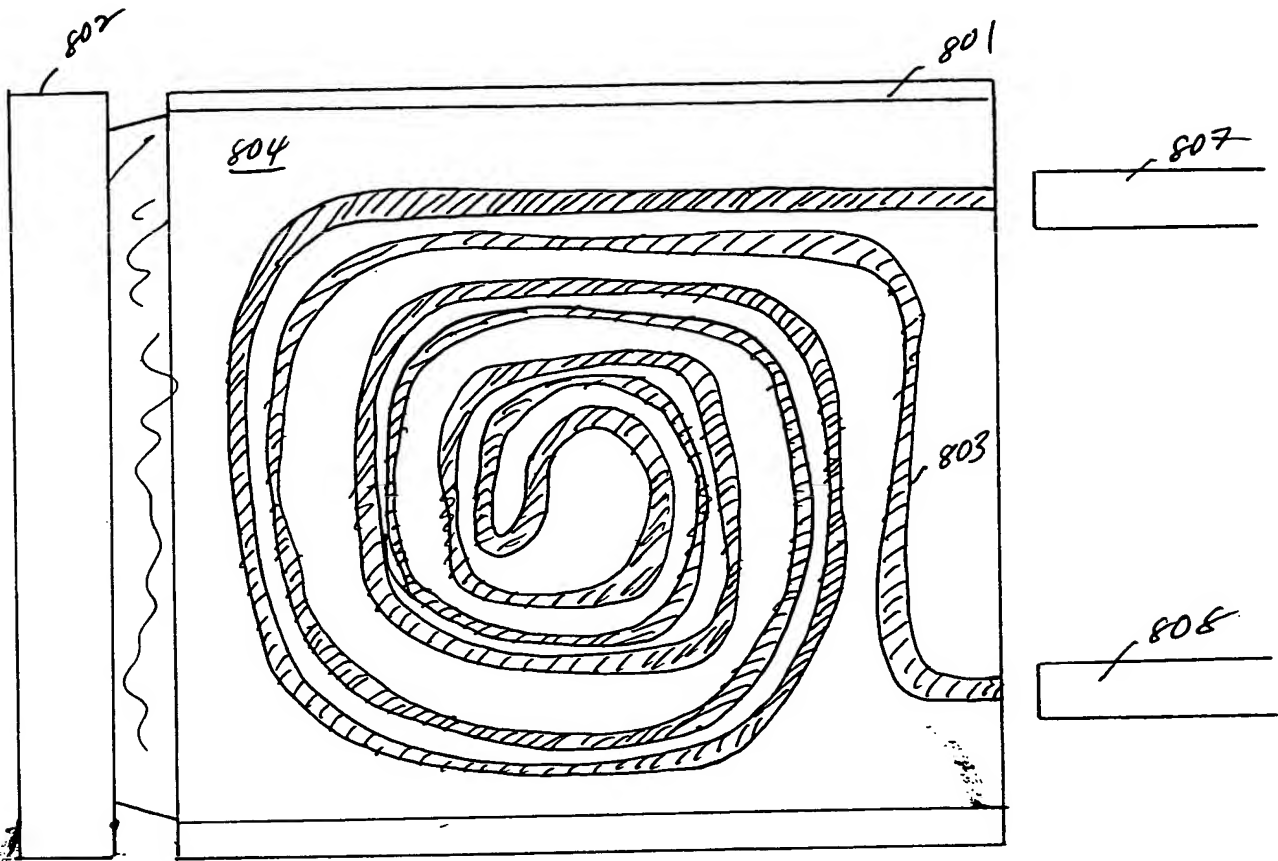


Figure 8A

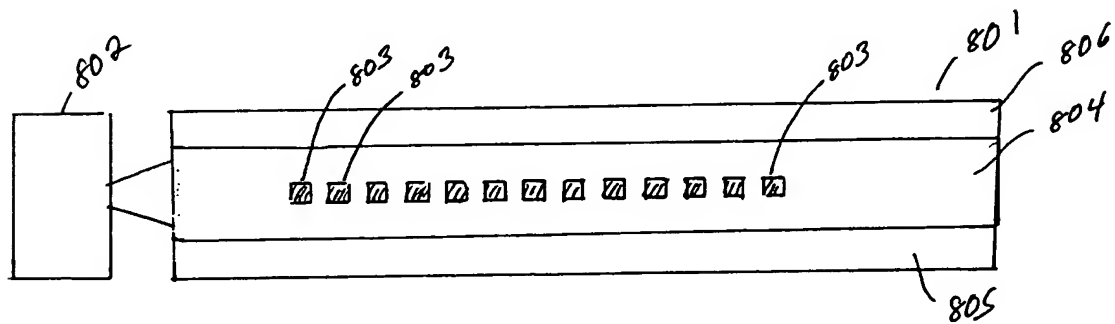
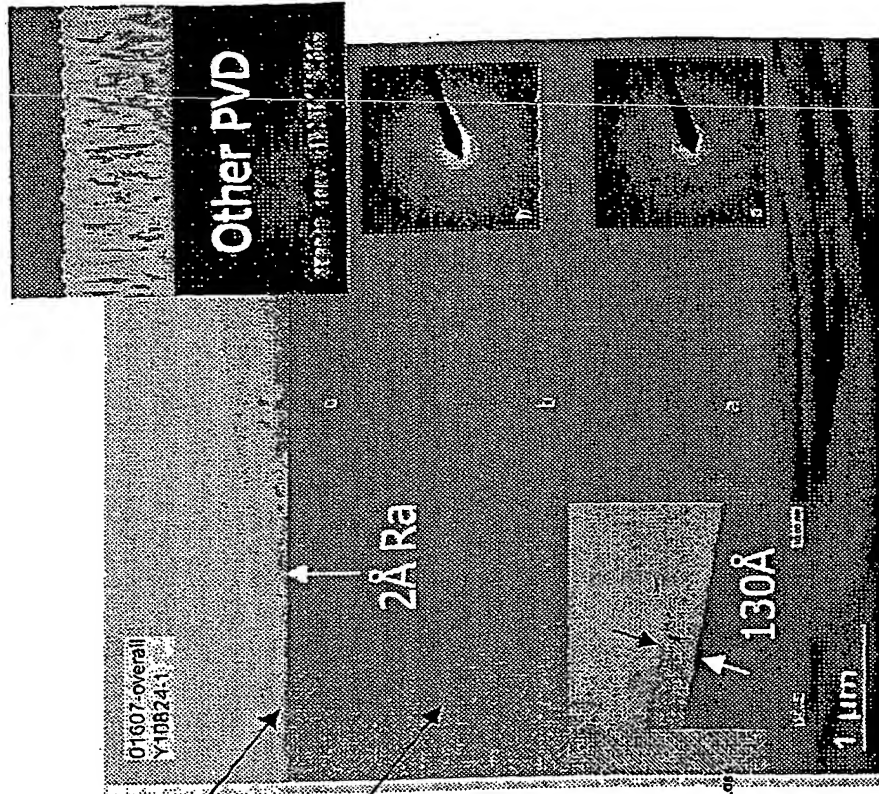


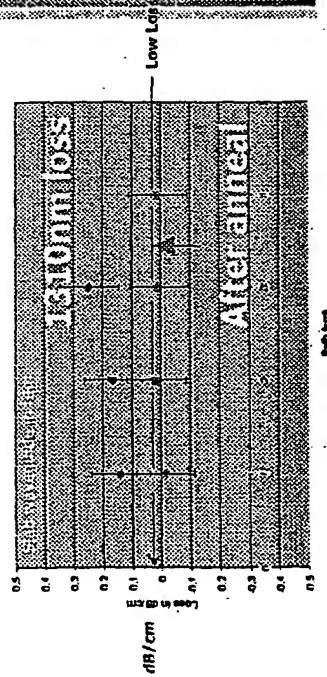
Figure 8B



Smooth surface indicates defect free film

Diffraction shows amorphous film through thickness

High optical transparency



Film transparency below 0.1dB detection sensitivity

Figure 9

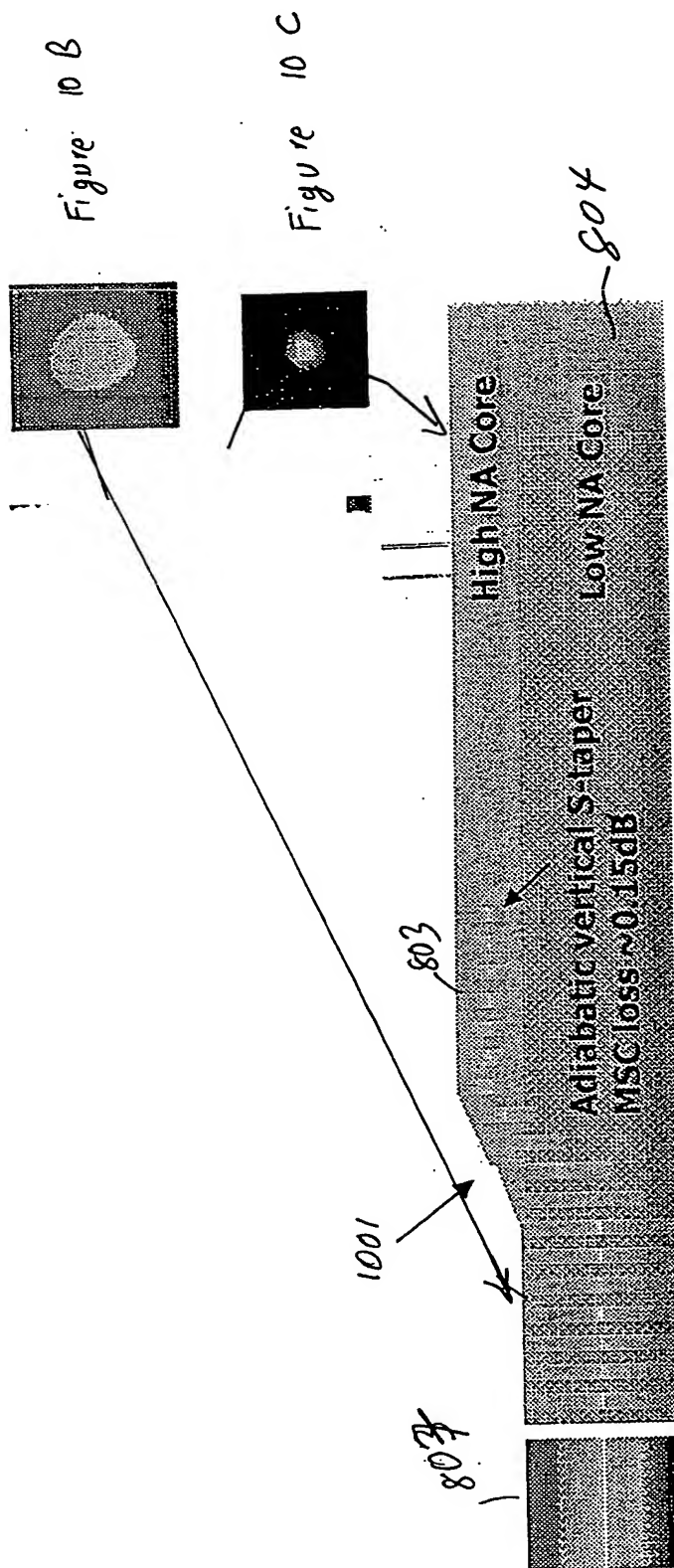


Figure 10A

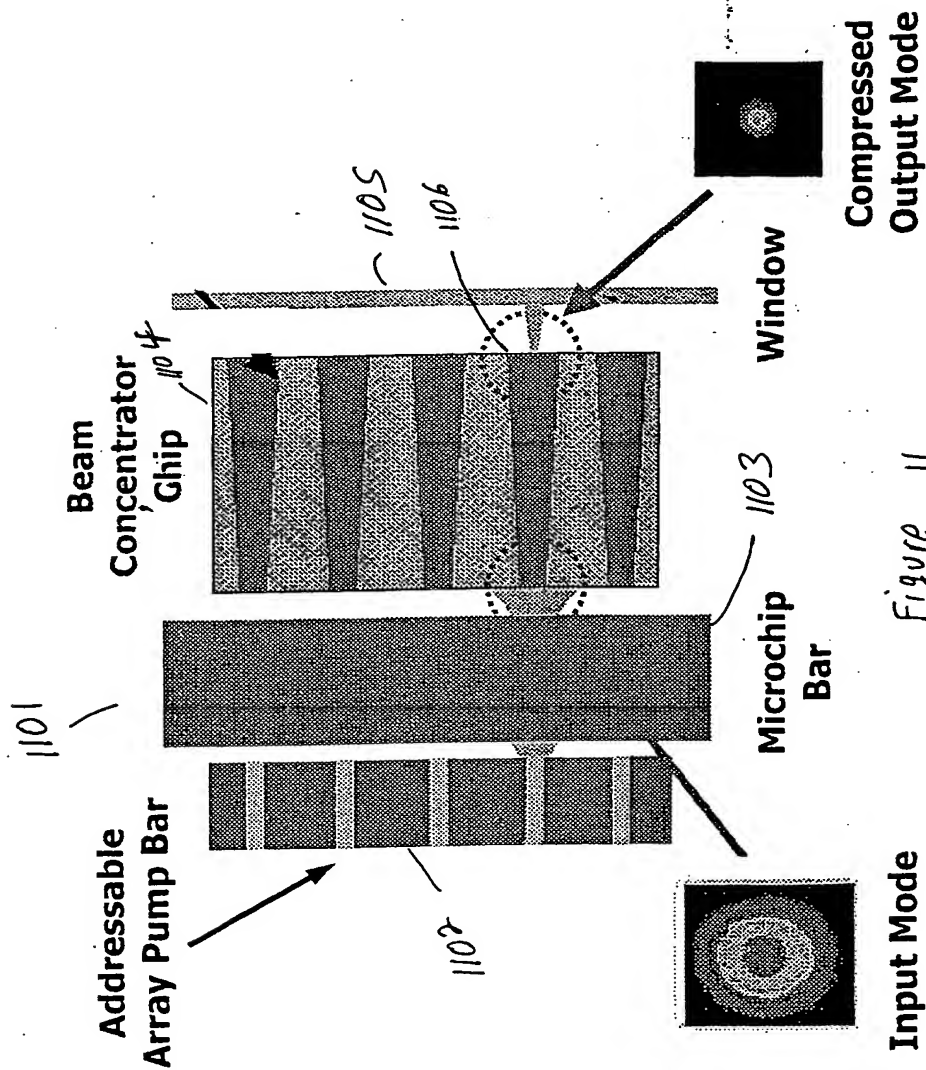


Figure 11

In re Application of David DAWES

Filed: August 27, 2003

Title: OPTICAL COUPLING INTO HIGHLY UNIFORM WAVEGUIDES
Figs. 12A, 12B (Sheet 13 of 14)

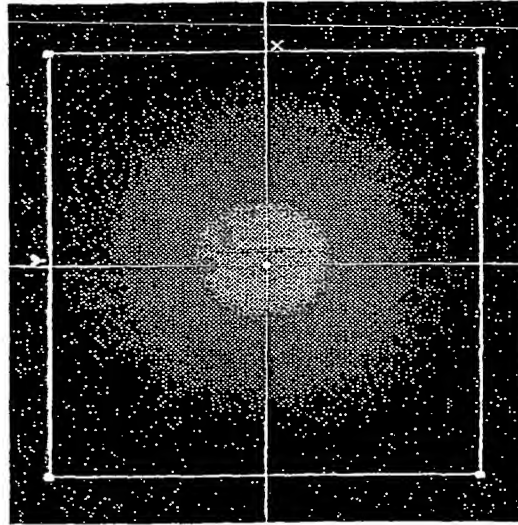


Figure 12B

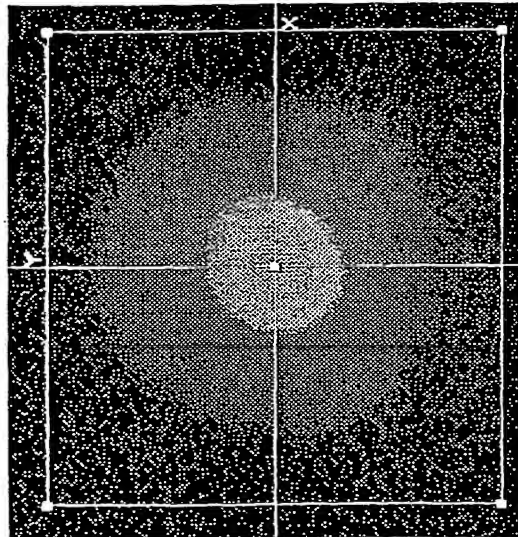


Figure 12A

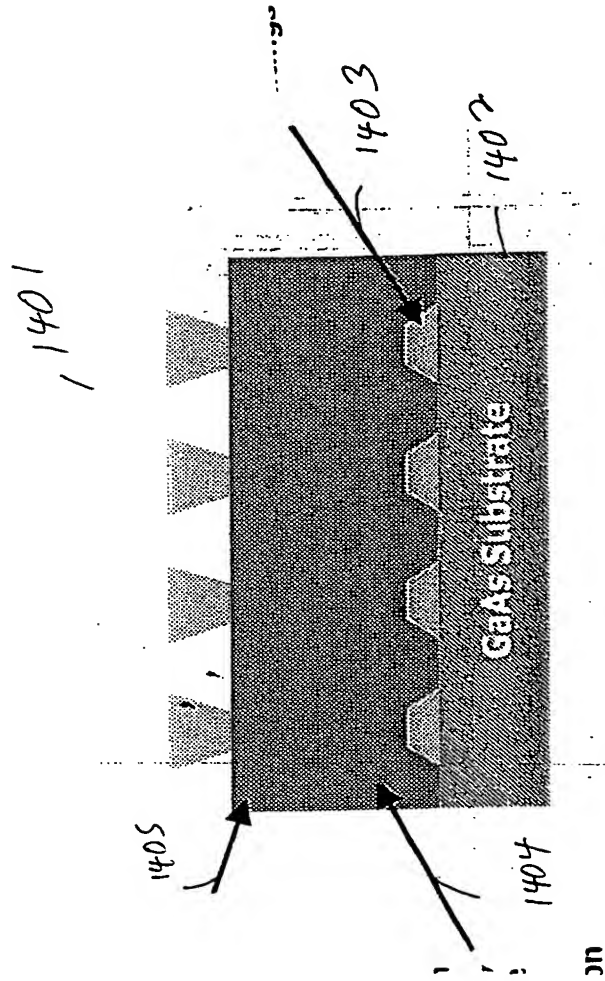


Figure 13